

Claims

1. A device for the preparation of a coffee-based drink by extracting a dose of ground coffee contained in a capsule (8), said device comprising a water tank (1), a pump (2), a heater body (15) and a water injection member (9) connected successively via a water inlet pipe (3); the device also comprising, disposed in the extension of the water injection member (9), a capsule-carrier (7) and an outlet orifice (10) for the water-coffee mixture, the capsule-carrier (7) being suitable for being manually attached to and removed from the device and comprises means for containing a capsule (8) of coffee, so that the pressurized water originating from the water injection member (9) can pass through the capsule (8) and pass through the outlet orifice (10), said device being characterized in that it also consists of a single branch pipe (5), said branch pipe (5) being connected at one of its ends to the water inlet pipe (3), and comprises, at the other of its ends, hydraulic means (6, 12, 13, 20) suitable for controlling the outflow of a water-coffee mixture through the outlet orifice (10); the device also comprising a valve (4) placed on the branch pipe (5), said valve (4) being suitable either to be open and allow the water to flow into the branch pipe (5) when a preset pressure is reached, or closed and close off any flow in the branch pipe (5) when said preset pressure is not yet reached.
2. The device as claimed in the preceding claim, comprising means of adjustment, by a user, of said preset pressure.
3. The device as claimed in claim 1 or 2,

characterized in that the valve (4) is pressure-sensitive.

4. The device as claimed in any one of claims 1 to 3, 5 characterized in that the hydraulic means (6, 12) comprise a stopper (12) which alternatively closes off or releases the flow of a water-coffee mixture through the outlet orifice (10).
- 10 5. The device as claimed in the preceding claim, characterized in that the capsule-carrier (7) comprises at least one outflow orifice (14) and that the hydraulic means (6, 12) are placed so as to be able to close off said orifice (14). 15
6. The device as claimed in any one of claims 1 to 3, characterized in that the hydraulic means (6, 13) consist of at least one perforation member (13) which, when it is activated, perforates a capsule 20 placed on the capsule-carrier (7) and thereby allows a water-coffee mixture to flow through the outlet orifice (10).
7. The device as claimed in any one of the preceding 25 claims, characterized in that the hydraulic means comprise a flexible reservoir (20) which, when it swells following the arrival of water, operates means (21, 22, 24, 12, 13) which release the outflow of a water-coffee mixture through the 30 outlet orifice (10).